Risk Reduction and Environmental Stewardship (RRES) Environmental Characterization and Remediation Group (ECR)

Personal Computer Maintenance Hazard Control Plan

HCP Number: HCP-3, Rev. 2.0

HCP Title: Personal Computer Maintenance

	F	RISK*	
nitial Risk: Low		Residual Risk: Minima	I
Risk determination	ns from LIR 300-0	0-01 Risk Determination Mat	rix; see p.6 of this HCP
Consultation		Concurrence	ce
When initial risk is mediu peer(s) or RRES-ECR <u>Subj</u> Experts			, concurrence of <u>independer</u> RRES-ECR Subject Matter
⊠ Not Required	Required	Not Required	Required
Name (RRES-ECR Sub	 ject Matter Expert)	Signature (as required)	
Name (Independent Peer)		Signature (as required)	
Line Management	Review (RRES-E0	CR)	
Line Management Alison M. Dorries	Review (RRES-E0	CR)	
J		CR) Signature	
Alison M. Dorries			
Alison M. Dorries		Signature	Date Description
Alison M. Dorries Name (Acting Group Le	eader)	Signature Revision History	

PERSONAL COMPUTER MAINTENANCE

SCOPE: This Hazard Control Plan (HCP) covers activities associated with installation, maintenance, and repair of computers and related peripheral equipment by RRES-ECR computer support staff for RRES-ECR employees located throughout the Laboratory. Aspects of work addressed include:

 physical set-up and movement of computer systems and related peripherals, and maintenance and repair of computer systems and related peripherals.

NOTE: THIS HCP DOES NOT COVER THE MAINTENANCE OR INSTALLATION OF PERSONAL COMPUTER INTERNAL POWER SUPPLIES.

DESCRIPTION OF OPERATION:

<u>Computer systems and peripherals installation</u>: RRES-ECR computer support team members may install both computers and peripherals in various personnel work areas. Work may include, but is not limited to:

- configuring the computer workspace in a work area
- connecting the computer and/or Uninterruptible Power Supply (UPS)
 peripheral to either a surge-protected "computer power strip" or directly to
 electrical service located on either a permanent wall or a cubicle wall
- connecting the computer to other peripherals and to the network
- installing and configuring software packages on the computer

<u>Computer systems and peripherals maintenance</u>: RRES-ECR computer support team members may perform a variety of computer maintenance activities, may include, but is not limited to:

- random access memory (RAM) installation and replacement
- video and cache memory installation and replacement
- central processing unit (CPU) installation and replacement
- peripheral card installation and replacement
- internal preventive maintenance cleaning
- hard drive, floppy drive, and CD-ROM drive installation and replacement
- printer toner cartridge installation and replacement
- printer paper jam clearing
- printer memory and special option card installation and replacement
- printer internal preventive maintenance cleaning

MATERIAL AND EQUIPMENT: Equipment that may be used in computer maintenance and repair activities includes, but is not limited to:

- various hand-actuated screw, hex, and torx drivers
- safety glasses

LANL AND REGULATORY REQUIREMENTS: N/A

FACILITY SPECIFIC REQUIREMENTS: N/A

EMERGENCY ACTIONS:

Minor cuts and abrasions: Send affected individual to Occupational Medicine (HSR-2).

More serious worker injuries or exposures (e.g., serious bleeding, fractures, back injuries, eye injuries, burns, electric shock, etc.): Should an emergency occur, a responsible person shall call 911 for emergency assistance. As soon as the situation is stabilized, the direct supervisor and facility representative shall be notified. A written report shall be filed within 24 hours. In the case of electrical shock and an energized circuit, clear the area of all other personnel, identify the circuit, and trip the circuit breaker if possible.

WASTE GENERATION: There are no foreseeable impacts to the environment other than non-recyclable computer, printer, and peripheral packaging materials and consumables that are disposed of in the trash and eventually in the county landfill.

Activity	Hazard	Control
Accessing computers or peripherals	 Electric shock Burn Cuts, punctures, or pinches Animal bites Exposure to Hanta Virus 	 Before beginning work turn off all computers, printers, and any related peripherals Before beginning work disconnect the power cords of all computers, printers, and any related peripherals from the electrical outlets Before beginning work inspect the equipment and cords for signs of damage Before beginning work identify sharp edges or connectors Before beginning work identify hinged parts Before beginning work identify potentially hot parts Use appropriate ladders and footstools to access items located above shoulder level When rodent droppings or nests are encountered leave the area and notify the responsible laboratory contact When rodents, arachnids, or snakes are encountered leave the area and notify the responsible laboratory contact
Lifting/Moving	Strains and injuries from lifting computer or computer peripheral equipment	 Review videotape on proper lifting techniques and back injury prevention Use proper lifting techniques: – Use good judgement when gauging the weight you can lift, and stay within your limits. Do not lift bulky materials or those weighing more than 50 pounds without someone's assistance or the use of a mechanical lifting device. Do not twist the torso while lifting. – Space your feet apart for good balance, and position yourself close to the object you are lifting. – Keep your spine straight as you squat or kneel next to the object you are lifting. – Flex your legs as you lift, using them to do most of the work, and keep the objects close to your body. Use appropriate ladders and footstools to access items located above shoulder level
Performing installations and	Electrical shockCuts, punctures, or pinches	 Wear safety glasses with side shields at all times Before beginning work identify sharp edges or

Activity	Hazard	Control
maintenance	• Foreign particles in the eye • Burns	 connectors Before beginning work identify hinged parts Before beginning work identify potentially hot parts If unfamiliar with the equipment, workers are required to read documentation for the computer/peripheral before beginning work. Workers are required to turn off all computers, printers, and any related peripherals before beginning work. Workers are required to disconnect the power cords of computers, printers, or other peripherals from the electrical outlets before beginning work. Whenever possible, workers are required to install computers, printers, and any related peripherals in locations where the electrical connections are easily accessible and in plain view during equipment installation/servicing. Whenever possible, workers are required to separate power cords from other types of cabling when bundling/arranging cords. Whenever possible, workers are required to route power cords above other cables in computer, printer, and related peripheral installations.

RISK DETERMINATION MATRIX

	Likelihood					
Severit y	Frequent Usual occurrence to likely occurrence, reasonably expected	Probable Likely occurrence to irregular occurrence, infrequent	Occasional Irregular occurrence, infrequent to slight chance of occurrence	Improbable Slight chance of occurrence to highly unlikely occurrence	Remote Highly unlikely occurrence to extremely unlikely occurrence	
Catastrophic Death, severe injury/occupational illness, severe environmental harm or liability, or severe property damage	HIGH	HIGH	HIGH	MEDIUM	LOW	
Critical Major injury/chronic impairment or occupational illness, major environmental harm or liability, or major property damage	HIGH	HIGH	MEDIUM	LOW	MINIMAL	
Moderate Minor injury/temporary impairment or occupational illness, minor environmental harm or liability, or minor property damage	HIGH	MEDIUM	Initial	Residual	MINIMAL	
Negligible Less-than-minor injury or occupational illness, less-than- minor environmental harm or liability, or less- than-minor property damage	LOW	MINIMAL	MINIMAL	MINIMAL	MINIMAL	

Using a token card, click here to record "self-study" training to this procedure.

If you do not possess a token card or encounter problems, contact the RRES-ECR training specialist.